# Automotive Technology 6th Edition
# Chapter 18 – Gasoline Engine Operation, Parts, and Specifications
# Lesson Plan

**CHAPTER SUMMARY:**

1. Energy and Power, engine construction overview, engine parts and systems
2. Four-stroke cycle operation and engine classification and construction
3. Engine measurement and compression ratio
4. Torque and horsepower

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**OBJECTIVES:**

1. Discuss engine construction, the engine's purpose and function, energy and power, and engine construction.
2. Explain engine parts and systems.
3. Explain four-stroke cycle operation.
4. Discuss engine classification and construction.
5. Explain engine measurement.
6. Discuss compression ratio, torque, and horsepower.

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**RESOURCES:** (All resources may be found at http://www.jameshalderman.com) Internet access required to hyperlink.

1. **Task Sheet ASE (A1-A-2) P-1**: Gasoline Engine Identification
2. **Task Sheet ASE (A1-A-2) P-1**: General Engine Specification
3. **Task Sheet ASE (A1-D-6) P-1 (MLR only)**: Lubrication & Cooling System Components
4. Chapter PowerPoint
5. Chapter Crossword Puzzle and Word Search
6. Videos: (A1) Engine Repair Videos
7. Animations: (A1) Engine Repair Animations

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**ACTIVITIES:**

1. **Task Sheet ASE (A1-A-2) P-1**: Have students complete Gasoline Engine Identification Task Sheet
2. **Task Sheet ASE (A1-A-2) P-1**: Have students complete General Engine Specification Task Sheet
3. **Task Sheet ASE (A1-D-6) P-1 (MLR only)**: Have students complete Lubrication & Cooling System Components Task Sheet

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**ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.
2. Complete end of chapter 10 question quiz.

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**CLASS DISCUSSION:**

1. Review and group discussion chapter Frequently Asked Questions and Tech Tips sections.
2. Review and group discussion of the five (5) chapter Review Questions.

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**NOTES AND EVALUATION:**

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